



**GEOGRAPHY
HIGHER LEVEL AND STANDARD LEVEL
PAPER 2 – RESOURCES BOOKLET**

Friday 13 November 2009 (morning)

INSTRUCTIONS TO CANDIDATES

- Do not open this resources booklet until instructed to do so.
- Use the resources as appropriate to the questions in paper 2.



C11. Topographic mapping

The aerial photograph and map show part of Ponte de Lima, a town in Northern Portugal.

KEY/LEGEND FOR MAP

Beach. Dunes

Sand. Escarpment

Landfill. Excavation

Stony land. Stones

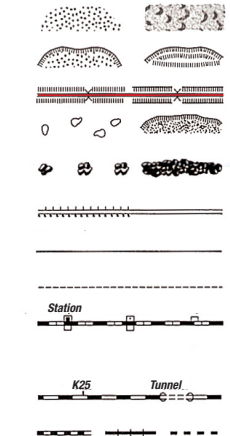
Rocky land. Rocks

Roads

- Access to automobiles
- Carts
- Pedestrians

Train tracks

- Wide
 - Pair/Double
 - Single
- Narrow; reduced; under construction



Houses. Ruins. Customs. Isolated tower

Castle or fort. Cemetery. Statue

Factory chimney. Pigeon house. Observation point. Silo

Fuel depot. Baking ovens (lime; tile)

Treatment plant. Lighthouse. Bull ring

Main Church. Church. Chapel. Cross

Border


- Country
- District. Council

Mine: entrance to mine; well. Cave

Masonry Mill; in ruins

Brick wall. Dry stone wall

Fuel line



Motorway

Roads

- Lane wider than 5.5 m
- Lane narrower than 5.5 m
- Under construction

Hospital. Garage

Crossing: ground; subway; overpass

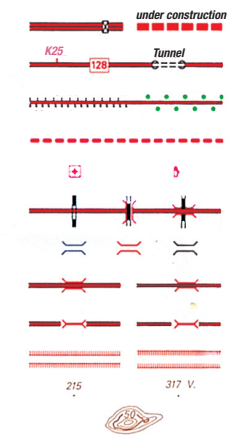
Bridges

- Iron; stone or concrete; wood
- Width of the road
- Narrower than the road

Supporting wall: landfill; excavation

Topographic measurements

Land contour



under construction

K25

T28

Tunnel

215

317 V.

Border landmark

Clay (soils). Terraces

Geodesic Vertices

- 1st order
- others; auxiliary


Construction or building serving as geodesic markers or auxiliaries

- Church. Chapel. Cross. Isolated tower
- Water tank. Statue. Silo
- Lighthouse. Radio transmitter. Antennae
- House. Castle. Chimney. Mill

Trees: sparse; dense

Woods. Bushes or dense trees

Orchard; Vineyard



172

160

AIRE

VIGIA

OLARIA

Fence or wall. Garden or orchard

Radio transmitter: series; isolated

TSF station. Radar

Electric substation. Transformer

High voltage cables: aerial; underground

Wind turbine. Watermill. Lift station

Aqueduct: elevated; underground

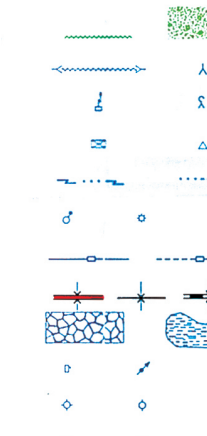
Aqueduct communication lines

Rice field. Terrain covered; uncovered

Fountain. Pond. Tank

Water tank: elevated; at ground level. Cistern

Well. Automated. Artesian well



Lagoon. Pond. Mire

Waterway

Marsh

River

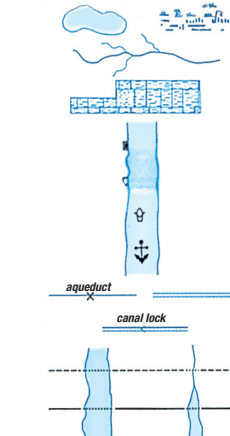
- Important river
- River
- Ferry
- Navigation point

Ditch

- Narrow; long
- Navigable

Ford

- Pedestrian
- Carts
- Cars



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REPRINTED IN 1999

aqueduct

canal lock

SCALE FOR MAP 1:25 000

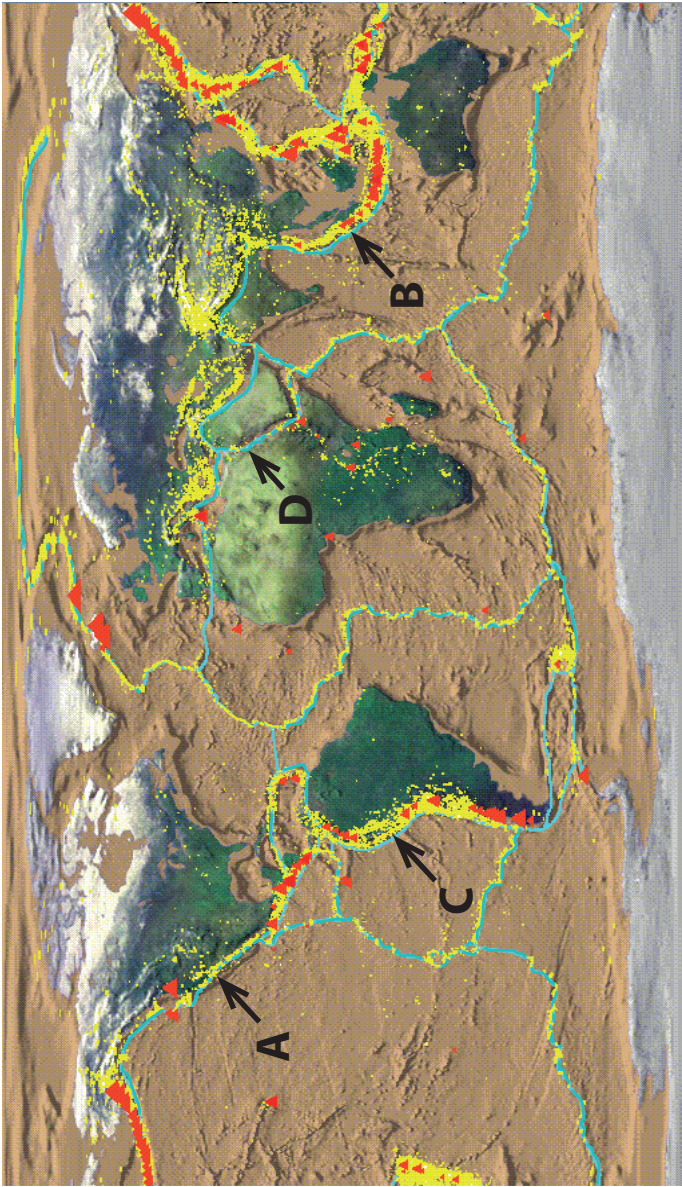


[Source: <http://www.cm-pontedelima.pt/pagina/pag/pl/fotos/big/aereas/aerea02.html>]



A4. Lithospheric processes and hazards

- (b) The map shows the world distribution of plate boundaries (blue lines), recent earthquakes (yellow dots) and active volcanoes (red triangles).



[Source: http://www.geology.sdsu.edu/how_volcanoes_work]

B8. Settlements

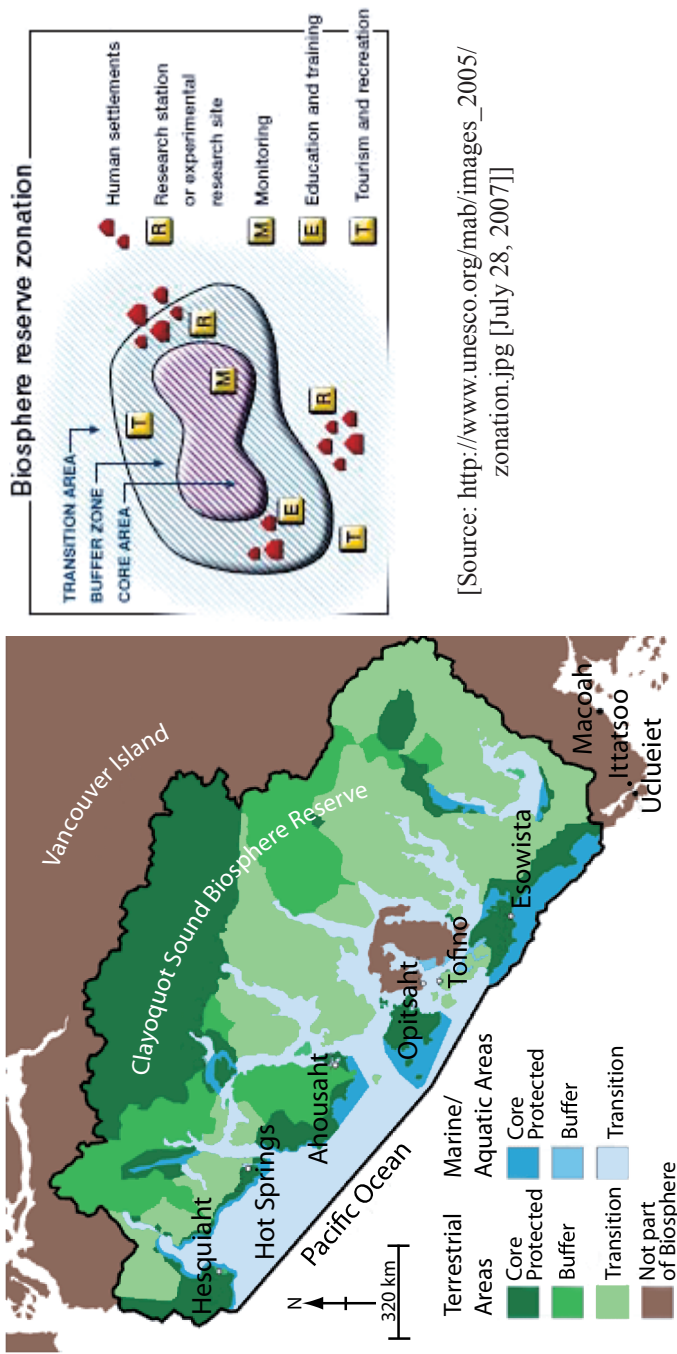
- (b) The photograph shows part of Caracas, capital of Venezuela.



[Source: Alfredo Brillembourg and Hubert Klumpner, U-TT/2006. Barrio Petare / Autopista Francisco Farvado / La Urbina Caracas, Venezuela]

B7. Contemporary issues in geographical regions

- (b) The map shows Clayoquot Sound Biosphere Reserve in British Columbia, Canada. The diagram shows a model of typical biosphere reserve zonation.



[Source: http://www.unesco.org/mab/images_2005/zonation.jpg [July 28, 2007]]

[Source: <http://www.clayoquotbiosphere.org/img/csubmap.gif> from the page <http://www.clayoquotbiosphere.org/biosphere/map.php> [July 28, 2007]]

B9. Productive activities: aspects of change

- (b) The diagrams show Von Thünen's model of agricultural location.

